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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,591	06/15/2009	Valery N. Khabashesku	11321-P081WOUS	4460
61060 WINSTEAD F	7590 03/11/201 PC	EXAMINER		
P.O. BOX 507	84	RUMP, RICHARD M		
DALLAS, TX	75201		ART UNIT	PAPER NUMBER
			1736	
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			03/11/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No.	Applicant(s)	Applicant(s)	
10/585,591	KHABASHESKU ET AL.		
Examiner	Art Unit		
Richard M. Rump	1736		

	10/000,001	THE PROPERTY OF THE				
Office Action Summary	Examiner	Art Unit				
	Richard M. Rump	1736				
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CPR 1.136(a). In no event, however, may a reply be timely filled after ISX (6) MONTHS from the mailing date of this communication. - If NO period for reply within the act or extended period for reply with the statistic, cause the application to become ABANDONED (38 U.S.C.§ 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filled, may reduce any earned patent term adjustment. See 37 CPR 1.704(b).						
Status						
1) Responsive to communication(s) filed on	action is non-final. nce except for formal matters, pro					
Disposition of Claims						
4) ☑ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) 4-20 is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the I drawing(s) be held in abeyance. Sec ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some co None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-SB/U8) Paper Not(s)Mail Date 11/07/2007	4) Interview Summary Paper No(s)/Mail D: 5) Notice of Informal F	ate				

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-3, drawn to a nanotube.

Group II, claim(s) 4-9, drawn to a method of making.

Group III, claim(s) 10-13, drawn to a nanotube.

Group IV, claim(s) 14-20, drawn to a method of making.

The groups of inventions listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: Between Groups I and III the products represent two mutually exclusive products as such they lack unity. Groups II and IV require two different functionalization species (fluorine and bromine) and as such are mutually exclusive and lack unity. With regards to Groups I and II, and III and IV respectively, they lack a common special technical feature as the CNT of group I is already known as per RU 2213049 discloses C60-NH-(CH2)_n-COOH (which is produced in a different manner than that of group II), given lack of unity from the other groups a lack of unity amongst them all then exists.

During a telephone conversation with Paul Amini on 9 November 2010 a provisional election was made with traverse to prosecute the invention of Group I, Application/Control Number: 10/585,591

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claims 1-3. Affirmation of this election must be made by applicant in replying to this Office action. Claims 4-20 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 rejected under 35 U.S.C. 103(a) as being unpatentable over RU 2213049 (Translated abstract provided and hereinafter '049).

Regarding claims 1-2, '049 discloses a functionalized fullerene (nanotube) with the formula H-C60-NH-(CH2)_n-COOH where n can be 3 and C60 is a "fullerene ring" (abstract). The hydrogenated C60/fullerence ring would be considered by one of ordinary skill in the art to be a functional equivalent to a functionalization site of a nanotube.

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Regarding claim 3, it would be obvious given the water-solubility concern of the instant invention that it would be readily more soluble in water than one a nanotubes that is not functionalized.

Conclusion

Claims 1-3 are rejected.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard M. Rump whose telephone number is (571) 270-5848. The examiner can normally be reached on Monday through Friday 7:00 AM-4:30 PM (-5 GMT).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on (571)272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/R. M. R./ Examiner, Art Unit 1736

> /Stuart Hendrickson/ Primary Examiner, Art Unit 1736